CLAIMS

What is claimed is:

1. A method of reducing viremia in an individual infected with hepatitis B virus (HBV), comprising administering a composition comprising a polynucleotide comprising an immunostimulatory sequence (ISS) to said individual, wherein the ISS comprises the sequence 5'-C, G-3', wherein an HBV antigen is not administered in conjunction with administration of said composition, and wherein said composition is administered in an amount sufficient to reduce HBV viremia.

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2. The method of claim 1, wherein the ISS comprises the sequence 5'-T, C, G-3'.

3. The method of claim 1, wherein the ISS comprises the sequence 5'-purine, purine, C, G, pyrimidine, pyrimidine, C, G-3' or 5'-purine, purine, C, G, pyrimidine, C, C-3'.

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- 4. The method of claim 3, wherein the ISS comprises a sequence selected from the group consisting of 5'-AACGTTCC-3', 5'-AACGTTCG-3', 5'-GACGTTCC-3' and 5'-GACGTTCG-3'.
- 5. The method of claim 1, wherein the ISS comprises the sequence 5'-TGACTGTGAACGTTCGAGATGA-3' (SEQ ID NO:1).

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- 6. The method of claim 1, wherein the individual is a mammal.
- 7. The method of claim 1, wherein administration is intravenous or subcutaneous.
- 8. A method of reducing blood levels of a hepatitis virus antigen in an individual infected with hepatitis B virus (HBV), comprising administering a

composition comprising a polynucleotide comprising an immunostimulatory sequence (ISS) to said individual, wherein the ISS comprises the sequence 5'-C, G-3', wherein an HBV antigen is not administered in conjunction with administration of said composition, and wherein said composition is administered in an amount sufficient to reduce blood levels of a hepatitis virus antigen.

- 9. The method of claim 8, wherein the ISS comprises the sequence 5'-T, C, G-3'.
- 10. The method of claim 8, wherein the ISS comprises the sequence 5'-purine, purine, C, G, pyrimidine, pyrimidine, C, G-3' or 5'-purine, purine, C, G, pyrimidine, C, C-3'.
- 11. The method of claim 10, wherein the ISS comprises a sequence selected from the group consisting of 5'-AACGTTCC-3', 5'-AACGTTCG-3', 5'-GACGTTCC-3' and 5'-GACGTTCG-3'.
- 12. The method of claim 8, wherein the ISS comprises the sequence 5'-TGACTGTGAACGTTCGAGATGA-3' (SEQ ID NO:1).
 - 13. The method of claim 8, wherein the individual is a mammal.
- 14. The method of claim 8, wherein administration is intravenous or subcutaneous.
 - 15. The method of claim 8, wherein the hepatitis virus antigen is HBsAg.
- 16. A kit for reducing viremia in an individual infected with or exposed to HBV, comprising a composition comprising a polynucleotide comprising an immunostimulatory sequence (ISS), wherein the ISS comprises the sequence 5'-C, G-3', wherein said kit does not comprise an HBV antigen; and wherein the kit

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comprises instructions for administration of said composition to an individual infected with or exposed to HBV to reduce viremia.

- 17. The kit of claim 16, wherein the ISS comprises the sequence 5'-T, C, G-3'.
- 18. The kit of claim 16, wherein the ISS comprises the sequence 5'-purine, purine, C, G, pyrimidine, pyrimidine, C, G-3' or 5'-purine, purine, C, G, pyrimidine, pyrimidine, C, C-3'.
 - 19. The kit of claim 18, wherein the ISS comprises the sequence 5'-AACGTTCG-3'.
 - 20. The kit of claim 16, wherein the ISS comprises the sequence 5'-TGACTGTGAACGTTCGAGATGA-3' (SEQ ID NO:1).